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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/622,614	07/21/2003	Kenichi Watanabe	030877	2630	
38834	7590 01/12/2006		EXAMINER		
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700			WILLIAMS, AI	WILLIAMS, ALEXANDER O	
			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036			2826		
			DATE MAILED: 01/12/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	10/622,614	WATANABE, KENICHI	SW)			
Office Action Summary	Examiner	Art Unit	h			
	Alexander O. Williams	2826				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>CPA</u>	and IDS filed 12/2/05					
<u> </u>	action is non-final.					
3)☐ Since this application is in condition for allowan		secution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-41</u> is/are pending in the application.						
4a) Of the above claim(s) <u>See Continuation Sheet</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,8,10,12,20,22,24,26,28,31,34 and 37</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
	oloolon requirement.	:				
Application Papers						
9) The specification is objected to by the Examiner	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign a)☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
 Certified copies of the priority documents 	have been received.					
Certified copies of the priority documents	have been received in Application	on No				
Copies of the certified copies of the prior	ity documents have been receive	d in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).	•				
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date	6) Other:					

Continuation of Disposition of Claims: Claims withdrawn from consideration are 2-7,9,11,13-19,21,23,25,27,29,30,32,33,35,36 and 38-41.

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Serial Number: 10/622614 Attorney's Docket #: 030877 Filing Date: 7/21/03; claimed foreign priority to 7/31/2002

Applicant: Watanabe

Examiner: Alexander Williams

Applicant's RCE filed 12/8/05 has been acknowledged.

Applicant's election of Species of figure 4 (claims 1, 8, 10, 12, 20, 22, 24, 26, 28, 31, 34 and 37), filed 5/6/04, has been acknowledged. Claim 1 is found to be generic to these claims.

This application contains claims 2-7, 9, 11, 13-19, 21, 23, 25, 27, 29, 30, 32, 33, 35, 36 and 38-41 drawn to an invention non-elected without traverse.

Note: There was no PTO/SB/08 or PTO 1449 form attached in the IDS filed 12/2/05

The indicated allowability of claims, 8, 10, 12, 20, 22, 24, 26, 28, 31, 34 and 37 are withdrawn in view of the newly discovered reference(s) to Kazuhiko and Kazumi et al.. Rejections based on the newly cited reference(s) follow.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 8, 10, 12, 20, 22, 24, 26, 28, 31, 34 and 37 are rejected under 35 U.S.C. § 102(b) as being anticipated by Kazuhiko (Japan Patent # 2000-269219).

1. For example, in claim 1, Kazuhiko (figures 1 to 12) specifically figures 1, 2 and 10 show a semiconductor device comprising: a first insulating film 40A formed over a substrate; a first interconnection 45Sub(1b) buried in at least a surface side of the first insulating film, the first interconnection having a pattern which is bent at a right angle; a second insulating film 41E formed on the first insulating film with the first interconnection buried in, and including a groove-shaped via hole 25B formed in a region above the frist interconnection, the groove-shaped via-hole having a pattern which is formed along an extending direction of the first interconnection and is bent at a right angle; and a first buried conductor filled 25C in the groove-shaped via-hole.

Claims 1, 8, 10, 12, 20, 22, 24, 26, 28, 31, 34 and 37 are rejected under 35 U.S.C. § 102(e) as being anticipated by Kazumi (Japan Patent # 2003-86590).

1. For example, in claim 1, Kazumi (figures 1a to 8B) specifically figures 1, 2 and 4 show a semiconductor device comprising: a first insulating film 10 formed over a substrate 1; a first interconnection 22,19,15,11 buried in at least a surface side of the first insulating film, the first interconnection having a pattern which is bent at a right angle; a second insulating film 13 formed on the first insulating film with the first interconnection buried in, and including a groove-shaped via hole 30 formed in a region above the first interconnection, the groove-shaped via-hole having a pattern which is formed along an extending direction of the first interconnection and is bent at a right angle; and a first buried conductor filled 22,19,15,11 in the groove-shaped via-hole.

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Field of Search	Date
U.S. Class and subclass: 257/758,776,775,700,701,751,753,774,762,763,765,767 438/629,619,622	7/24/04 12/12/05
Other Documentation: foreign patents and literature in 257/758,776,775,700,701,751,753,774,762,763,765,767 438/629,619,622	7/24/04 12/12/05
Electronic data base(s): U.S. Patents EAST	7/24/04

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O Williams whose telephone number is (571) 272 1924. The examiner can normally be reached on M-F 6:30-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272 1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AOW 12/12/05

> Primary Patent Examiner Alexander O. Williams